## Lecture Week No. 1



Experimental Lectures	Lecture 1: GWs and their effect Danzmann	Lecture 2: Modulation Danzmann	Lecture 3: Interferometer and DC readout	Lecture 4: Fabry-Perot, Pound-Drever- Hall, EOM Heinzel	Lecture 5: Interferometer noise sources
General Relativity	Lecture 1: Tensors and Fluids in Special Relativity	Lecture 2: Curved coordinates, Equivalence principle	Lecture 3: Tensors and physics in curved spacetime	Lecture 4: Einstein equations, initial value formulation	Lecture 5: Linearized gravitational waves
	Rezzolla	Rezzolla	Rezzolla	Rezzolla	Rezzolla
Numerical Relativity	Lecture 1: Discrete differential operators	Lecture 2: 3+1 split of spacetime	Lecture 3: Different formulations of Einstein equations	Lecture 4: Gauges, initial data and GW extraction	Lecture 5: Introduction to relativistic hydro-dynamics
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